

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
25 August 2005 (25.08.2005)

PCT

(10) International Publication Number
WO 2005/078091 A1

(51) International Patent Classification⁷: C12N 15/11,
A61K 38/00, G01N 33/50

(21) International Application Number:
PCT/GB2005/000459

(22) International Filing Date: 11 February 2005 (11.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0403041.7 11 February 2004 (11.02.2004) GB

(71) Applicant (for all designated States except US): THE
UNIVERSITY OF YORK [GB/GB]; Heslington, York
Yorkshire YO10 5DD (GB).

(72) Inventor; and

(75) Inventor/Applicant (for US only): MILNER, Anne
Josephine [GB/GB]; The University of York, YCR P53
Research Group, Department of Biology (Area 14), York
Yorkshire YO10 5DD (GB).

(74) Agents: BRASNETT, Adrian et al.; Mewburn Ellis LLP,
York House, 23 Kingsway, London Greater London WC2B
6HP (GB).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: INDUCTION OF APOPTOSIS BY INHIBITION OF SIRTUIN SIRT1 EXPRESSION

(57) Abstract: The invention relates to the induction of apoptosis by inhibition of the sirtuin SIRT1 expression, in particular the induction of apoptosis in tumour cells. Materials and methods for inhibiting SIRT1 expression are provided, including RNA interference methods. In particular, the invention provides a method of treating a proliferative disease comprising administering to an individual in need thereof an effective amount of a SIRT1 inhibitor.

WO 2005/078091 A1